— EXHIBIT 1—

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Page 1
               THE WESTERN DISTRICT OF MISSOURI
 1
 2
                           SOUTHERN DIVISION
 3
     MICHELLE ANDERSON,
     individually and on behalf of )
     all others similarly situated,)
 4
                     Plaintiff,
 5
                                     ) No. 6:17-cv-03244-BP
 6
           -VS-
 7
     FORD MOTOR COMPANY,
                     Defendant.
 8
 9
                 UNITED STATES DISTRICT COURT
10
                WESTERN DISTRICT OF WASHINGTON
                          AT TACOMA
11
     JACOB BEATY and JESSICA BEATY )
     on behalf of themselves and
12
     all others similarly situated,)
13
                     Plaintiffs,
14
                                      No. 3:17-cv-05201-RBL
           -vs-
15
     FORD MOTOR COMPANY,
16
                     Defendant.
17
18
             VIDEOTAPED DEPOSITION OF THOMAS L. READ
19
                     Tuesday, March 19, 2019
20
     REPORTED BY:
21
                         KIPP HODGE, CSR #7642
22
23
24
25
        Job No. CS3261593
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	Page 2
1	APPEARANCES:
2	
3	FOR THE PLAINTIFFS:
4	GREG COLEMAN LAW
_	First Tennessee Plaza
5	800 S. Gay Street, Suite 1100
	Knoxville, Tennessee 37929
6	BY: MARK E. SILVEY, ESQ.
7	RACHEL SOFFIN, ESQ.
,	AND
8	
	LAW OFFICES OF TERRELL MARSHALL LAW GROUP
9	936 North 34th Street, Suite 300
	Seattle, Washington 98103
10	BY: BENJAMIN M. DRACHLER, ESQ.
11	
12	FOR THE DEFENDANT FORD MOTOR COMPANY:
13	LAW OFFICES OF SLATTERY PETERSEN, PLLC
7.4	2828 North Central Avenue, Suite 1111
14	Phoenix, Arizona 85004
15	BY: BRADLEY W. PETERSEN, ESQ.
10	AND
16	
	LAW OFFICES OF ALSTON & BIRD, LLP
17	One Atlantic Center
	1201 West Peachtree Street
18	Atlanta, Georgia 30309-3424
	BY: KYLE G.A. WALLACE, ESQ.
19	
20	
21	ALSO PRESENT:
22	Mike Tunick, Certified Legal Video
22	Specialist
23 24	000
25	000
2)	

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Page 27
           Α
                No.
 1
 2
           O
                If you haven't inspected any of those
 3
     vehicles, who it be fair to assume that you haven't
     done any testing on any of these vehicles?
 4
 5
                I have not, but that's not relevant to
     what we're talking about here.
 6
 7
                Okay.
           0
                They're all made out of large thin pieces
 8
           A
     of thermally tempered glass, and I've been
9
10
     involved -- involved in inspecting numerous -- first
11
     of all, they're not manufactured by Ford. I've
12
     looked at sunroofs manufactured by the same people
13
     that supply them to Ford and have done significant
     analysis of that.
14
15
                So to me whether it's on a Ford or some
16
     other -- you know, whether it's a pickup truck or a
17
     Lincoln or a Ford is not really important in the
     consideration of the application of a large thin
18
19
     piece of glass replacing the steel roof of a
20
     vehicle.
21
                 Okay. Let me ask you this: You said
22
     these panoramic sunroof modules are manufactured by
     others; is that correct?
23
24
           Α
                Uh-huh.
25
           Q
                 Yes?
```

```
Page 43
     that for a fact, but I'm pretty sure that's what it
 1
     was.
                All right.
 3
           Q
                 I might add that they call tempered safety
 4
           Α
     glass "safety glass," but if you have it horizontally
 5
 6
     or hanging and it fails, it can become almost as
 7
     dangerous as annealed glass because the particles
     stay interlocked.
 8
 9
                 My own opinion is that it's mainly safety
     glass when you go through it and it breaks into small
10
11
     particles, so there's some misinterpretation of why
12
     that's safety glass.
13
           0
                Is it not NHTSA that defines what is
     safety glass in the automotive application?
14
15
                MR. SILVEY: Object to the form.
16
                THE WITNESS: NHTSA just sees -- yeah,
17
     they can define it anything they want. They can call
     it safety glass, but that doesn't take away with --
18
19
     away from the actual physical properties of the glass
20
     under a given situation.
21
                MR. PETERSEN: Q Do you know what NHTSA
22
     is?
23
                National Institute or some -- Highway
           A
     Safety. I don't know.
24
                Okay. Fair to summarize it as the federal
25
           Q
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```
Page 44
1
     government agency who governs the safety of vehicles
2
     on the highways and byways of the United States?
3
                MR. SILVEY: Object to the form.
                THE WITNESS: Yes.
 4
                MR. PETERSEN:
 5
                                Q Okay.
 6
           Α
                 That's true.
 7
                 Okay. So do you know whether NHTSA has
            0
     any regulations specifically as to safety glass for
 8
 9
     automotive applications?
10
           Α
                 I'm sure they do.
11
                Do you know what it is?
            Q
12
           Α
                No.
13
            0
                Do you know if there's a federal motor
     vehicle safety standard that applies to automotive
14
15
     qlass?
16
                 I suspect there is, but I've never read
           Α
17
     it.
                Okay. Have you ever read FMVSS 205?
18
           0
                Probably. I didn't memorize it.
19
           A
20
           0
                Okay. What is FMVSS 205?
                I believe that's the one that discusses
21
22
     glass in vehicles, but I'm not certain.
23
           Q
                Do you know what the purpose of FMVSS 205
24
     is?
           A
25
                No.
```

```
Page 45
                Would it surprise you to know that the
1
2
     stated purpose for FMVSS 205 regards safety?
3
                MR. SILVEY: Object to the form.
                THE WITNESS: I'm a Material Scientist.
4
5
     I'm not a government bureaucrat. I'm just telling
     you what I know about tempered safety glass. They
6
7
     can interpret it whatever way they want.
8
                They -- for example, I read one time there
9
     was a government study where they ran a Volkswagen
10
     into like a '72 Oldsmobile to prove that small cars
11
     were not safe. And the whole purpose was to increase
12
     the sales of SUVs.
                MR. PETERSEN: Q Okay. Let's talk about
18
19
     that.
20
                The Ford PSRs that fall within the
21
     definition of Subject Vehicles in your report, do
22
     they all comply with FMVSS 205?
23
                MR. SILVEY: Object to the form.
                THE WITNESS: I really don't know.
24
25
                MR. PETERSEN: Q Okay. Do you have any
```

800-567-8658

Page 51 report, you refer to defects in design of Ford PSRs; 1 is that correct? Α 3 Correct. Did you identify any defects that you felt 4 0 were manufacturing defects in your work in this case? 5 I did not. 6 Α 7 You're not a warnings expert; is that 0 fair? 8 9 Α Well, I was a safety engineer for several 10 companies. I don't know if that makes me a warning 11 expert or not. 12 Okay. Let me ask you a different Q 13 question. You're not offering any opinions about 14 warnings in this case? 15 16 No, I don't think I am. 17 Not offering any opinions about Ford's Q expressed warranty? 18 19 Α No. 20 Not offering opinions about Ford's Q warranty handling processes, including those 21 2.2 described in Ford's Warranty and Policy Manual? 23 Α No. Have you reviewed ANSI Z26.1? 24 0 A I may have. You'd have to explain to me 25

Page 52 what it is. 1 2 O Okay. 3 A I have a hard time remembering all these numbers. 4 5 O ANSI Z26.1 regards automotive glass and 6 glazing. 7 I believe I've seen it, and I think I read A through it, and from my perspective, it's basically 8 9 the same description of like, say, tempered glass. 10 It's the same as what ASTM says. 11 Okay. And does ANSI Z26.1 for FMVSS 205 12 provide for materials -- properties testing for raw 13 materials used in automotive glass and glazing? Possibly. I don't recall. 14 Α 15 0 Do you understand whether FMVSS 205 provides manufacturers a choice of glazing materials 16 17 for applications like roof lites, l-i-t-e-s, lites? 18 Α Are you talking about sunroofs? 19 Sure. Q I don't know. I haven't committed it to 20 Α memory, so I don't know. 21 2.2 O Let me read something to you, and I'll ask you if you agree or disagree. Okay? 23 24 Α Sure. And I quote, "One safety glazing material 25 Q

Page 57 Yes. Actually, Ford didn't make it. They 1 2 just -- they purchase it from someone else. Understood. But why is tempered versus 3 some other construction important to your analysis of 4 whether there's a common defect in the Subject 6 Vehicles? 7 Well, we have to go back to the properties 8 of tempered glass, and I -- as we get into the 9 report, we can talk about it. 10 But basically you have -- about one-fifth 11 of the thickness starts at some compressive stress, 12 and I've looked at like rear windows in pickup trucks 13 and stuff, and it starts around 16 to 18,000 psi, 14 goes through zero -- so it's going negative, so it's 15 coming negative, goes through zero, goes into tensile and then comes down on the other side. 16 17 If you penetrate that compressive layer and enter the tensile layer, the glass immediately 18 19 self-destructs. So to me that's a defect because any kind of -- like wash the car, you might scratch it, 20 you know, drag your watchband over it or -- and 21 22 you've created a small bruise or defect that can grow 23 over time. And once that grows to the point where it 24 penetrates the tensile -- penetrates into the tensile 25

	Page 58
1	region, you create cracks that go at one mile per
2	second, so that's 36,000 miles an hour. And they
3	have videos of it showing that, "boom," it's gone.
4	So then that glass has no integrity anymore. It's
5	basically not there, and it falls down.
6	And that's a real problem when it's
7	horizontal like that. If it's vertical, it's
8	probably good because when you go into an accident or
9	something, if that window breaks, it's going to break
LO	into small particles, and it's less likely to injure
11	someone. But when it's horizontally like that, it's
L2	going to fall down into the vehicle.

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Page 60
     glass to another construction, like laminated glass,
 1
 2.
     would you think that change would make the design
     safe and not defective?
 3
                MR. SILVEY: Object to the form.
 4
                 THE WITNESS: I think they should have
 5
     stuck with the steel.
 6
 7
                MR. PETERSEN: Q Okay.
 8
           Α
                Again, I'm not a designer.
           0
                I understand. And I think you've said
9
     that in your report, that these panoramic sunroofs
10
11
     have replaced what were more commonly, historically
12
     all steel roofs?
13
           A
                Correct.
                And all steel, obviously, isn't going to
14
15
     break but -- like any type of glass?
16
                Well, see, there's a major difference
     between glass and steel. Glass is a brittle
17
     material, so it doesn't absorb any energy.
18
                If something hits your steel roof and
19
20
     scratches it, all right, you have an ugly scratch
21
     which you can buy some paint over at the auto parts
22
     store and make it look like it wasn't scratched. But
     if you damage glass, eventually it's going to fail.
23
24
           0
                 Okay. Just, for example, say, what
     vehicle did you arrive here in today?
25
```

```
Page 65
     looking for a time to break, so we'll go off the
 1
 2.
     record.
                 THE VIDEOGRAPHER: Okay. Off the record
 3
     at 11:01.
 4
                 (Brief recess from 11:01 to 11:12 a.m.)
 5
                 THE VIDEOGRAPHER: Back on the record at
 6
 7
     11:12.
                 MR. PETERSEN: Q Have you evaluated
 8
     Ford's use of laminated glass in panoramic sunroofs?
 9
10
            Α
                 No.
                 Have you tried to evaluate failure rates
17
            Q
18
     or replacement rates as to any type of glass in this
     case?
19
20
            Α
                 No.
21
                 Have you used replacement rates or failure
22
     rates for your opinions in this case at all?
23
            Α
                 No.
                You previously mentioned some of the
24
           0
     testing done for other cases as to panoramic sunroof
25
```

```
Page 66
     modules from either Wabasto or Inalfa that you
1
 2
     analyzed in one way or another. Do you call that?
 3
           A
                Yes.
                And we don't have that in your report or
 4
 5
     in your file materials, correct?
 6
           A
                Correct.
 7
                Fair to say that you're not relying on
           0
 8
     that prior testing in the Hyundai or Kia case for
9
     your opinions in this case?
10
                MR. SILVEY: Object to the form.
11
                THE WITNESS: I can't say that that's
12
     true. I mean, in terms of the failure mode, I will
13
     not use them directly, but I gained a certain
     understanding of the sunroofs from looking at those
14
15
     failures.
                MR. PETERSEN: Q Okay. So from looking
16
17
     at failures in the Hyundai and Kia cases, you gained
     some understanding as to panoramic sunroof failures
18
19
     generally?
20
           A
                Correct.
                And those were either Inalfa or Webasto
21
     panoramic sunroofs?
22
23
           A
                Correct.
                And as to the specifics of those sunroofs
24
           0
     and their dimensions and thicknesses and things like
25
```

```
Page 67
1
     that you can't talk about here today?
 2
           A
                Correct.
                Is there anything about your findings that
 3
           0
     you can share with us today in this deposition?
 4
 5
           A
                Well, I think --
                MR. SILVEY: Object to the form.
 6
 7
                THE WITNESS: I've already mentioned that
8
     they're progressive in nature.
9
                MR. PETERSEN: Q Okay. As I understand
10
     that, that -- that progressive in nature failure, you
11
     didn't need a panoramic sunroof to be able to do
12
     that. That could have been any piece of tempered
13
     safety glass, correct?
                Yeah. I think you brought up an important
14
15
     point, is that the specific use of the tempered glass
     is not important. What's important is either you're
16
17
     using tempered glass or something else. The
     application isn't critical. It's the material
18
     itself.
19
20
                I'm a Material Scientist, so you're asking
     me questions about sunroofs, but all of these things,
21
22
     more or less, are applicable to other tempered glass
23
     objects.
24
           0
                I understand.
                As to the specifics, is there anything --
25
```

```
Page 72
      a mountain top pass?
 1
 2.
            Α
                 Yeah.
                       Those are all unexpected events.
                 Okay. And you wouldn't fault the
 3
            0
     panoramic sunroof, whether it was tempered or
 4
      laminated or something else, for being damaged by a
 5
      falling boulder off a mountain pass?
 6
 7
            Α
                 No.
                 Fair enough. Okay. I think I understand.
 8
            Q
 9
                 All right. One of the areas -- one of the
10
      criteria you have there is size, correct?
11
            Α
                 Correct.
12
                Do you know how many panels there are in
           Q
13
     the 2007 to 2014 Ford Edge?
                I don't have that memorized, no.
14
           A
                Okay. Do you know what their sizes are,
15
           0
16
     whether they're front panel or rear panel?
17
           A
                No.
                Do you know what -- same question as to
18
           0
     the Ford Escape?
19
20
           A
                No.
                Ford Explorer?
21
           0
22
           A
                No.
                Lincoln MKX?
23
           0
24
           A
                No.
                Lincoln MKT?
25
           Q
```

Page 73 No. 1 A 2 Lincoln MKS? O 3 A No. Okay. Does the specific size other than 4 0 5 being larger than one half square meter make any 6 difference to you? 7 I think that what we're really talking about is it's a structural member of the vehicle, 8 9 that it's replacing a roof, and that's not directly 10 necessarily related to the actual size. It has to do 11 with its participation in the unibody construction. 12 Have you done anything to evaluate the 13 participation of the glass in the unibody construction? 14 15 Α Yeah. 16 How? 0 17 I did an open and close door, saw the Α 18 glass flex, so that tells me the glass is going to If the vehicle flexes, the glass is going to 19 flex. 20 Opening and closing a door is just one 21 example, and that's one I could test. 2.2 What page are you on? 23 I'm still looking at your report here, and 0 24 I'm just trying to talk a little bit about size as one of the factors that you've identified. 25

```
Page 81
                Okay. And, obviously, I think we already
 1
 2
     talked about there could be some variability sheet to
     sheet?
 3
                Yeah, could be.
 4
           Α
 5
                And so -- but nominally if we talk about
     20 percent or one-fifth, if you make the glass
 6
     thicker, you make the compressive layer thicker?
7
8
           A
                Correct.
9
                Does that make it more robust to breakage,
10
     all else being equal?
11
           A
                Yes, it --
12
                MR. SILVEY: Object to the form.
13
                THE WITNESS: Yes, it does, but it just
     delays the failure. It just means the -- whatever
14
     the defect is that's growing will take longer to
15
16
     penetrate into the tensile layer.
17
                MR. PETERSEN: Q What thickness is
     typically used in conventional traditional sunroofs?
18
                Don't know.
19
           Α
20
                Have you -- I'm sorry. I thought you said
            0
     you'd done some testing on a conventional sunroof at
21
22
     some point in the past. Was that -- did I --
23
                 I did not say that.
           Α
24
           O
                 I apologize.
                Without revealing any confidential
25
```

Page 175 Then under the next folder is "Documents." Q 1 Uh-huh. 2 Α "Ball-drop Calculations"? 3 Q Α Correct. 4 5 0 That looks like some math from the Flat Glass Manufacturers Association of Japan. 6 7 Α Right. What's the relevance to your opinions? 8 Q 9 I might have pulled that out of the other 10 file. Basically, they have an average impact model. I didn't really use it for the report, so you can 11 12 just skip over that. 13 Q Okay. Unless you want to read it in detail. 14 Α

_	Page 205
1	REPORTER'S CERTIFICATE
2	
3	
4	I, KIPP HODGE, a Certified Shorthand Reporter,
5	do hereby certify that before the taking of the
6	foregoing deposition, the witness was duly sworn by
7	me to testify to the truth, the whole truth, and
8	nothing but the truth in the above-entitled matter;
9	and that the foregoing is a full, true and correct
10	transcript of the proceedings had at the taking of
11	said deposition.
12	
13	I further certify that I am not of counsel or
14	attorney for either or any of the parties in the
15	above-mentioned cause, or in any way interested in
16	the outcome of said cause.
17	
18	I hereby affix my signature this 29th day of
19	March, 2019.
20	
21	
22	
23	
24	KIPP HODGE CSR #7642
25	